

Work Order ID 150673

Monday, August 29, 2016 2:58:41 PM

150673

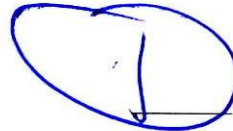
Page 1

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Cable Cutter System
Start Date: 8/29/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/6/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: DAS 21 9-89 Date: AUG 30 2016 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89
OCT 11 2016

  SEP 21 2016
DAS
28
9-89

DAS
27
9-89
OCT 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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DAS
21
9-89

OCT 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	☐	Past Due ☐							

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No 100 Each 12.0000 1

600 1012

Sealant PR1425B2 (#654 sem)

**

① ABS 600 PC **DAS 28 9-89**

Location

Loc Qty

Loc Code

cck017

12

m135135

4

m135407

8

600.1013 Purchased No 100 Each 735.0000 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

PC **DAS 28 9-89**

Location

Loc Qty

Loc Code

CCK095

735

m131145

735

6/15/2016

646.2910 Manufactured No 100 Each 4.0000 1

646 2910

Deflector

**

149303 sp OCT 11 2016 **DAS 28 9-89**

Location

Loc Qty

Loc Code

CCK050

4

140993

4

646.3001 Manufactured No 100 Each 1.0000 1

646 3001

Lower Cutter Assembly

**

① M148335 **DAS 28 9-89**

Location

Loc Qty

Loc Code

cck018

1

142639

1

SEP 21 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval 	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause			FAULT CATEGORY		
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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OTHER : _____					

Picklist Print

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Page 4

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3511 Manufactured No

100 Each 17.0000 1 1

646 3511

Strut

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck104

8

141499

8

CCK108A

9

141499

9

646.3610 Manufactured No

100 Each 7.0000 1 1

646 3610

Filler

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck104

7

141103

7

646.3710 Manufactured No

100 Each 17.0000 1 1

646 3710

Doubler

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK002

17

140753

17

646.3711 Manufactured No

100 Each 10.0000 1 1

646 3711

Clip

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

cck105

10

142632

10

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER : _____					

Picklist Print

Monday, August 29, 2016 2:58:39 PM

Page 5

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

100

Each

12.0000

1

1

**

P< DAS 28 9-89

646 3712

Clip

DAS 27 9-89

Location

Loc Qty

Loc Code

cck105

12

140787

12

646.3713

Manufactured No

100

Each

16.0000

1

1

**

P< DAS 28 9-89

646 3713

Gusset

DAS 27 9-89

Location

Loc Qty

Loc Code

cck105

16

140084

16

646.3714

Manufactured No

100

Each

3.0000

1

1

**

148235 DAS 28 9-89

646 3714

Gusset

DAS 27 9-89

Location

Loc Qty

Loc Code

cck105

3

140048

3

646.3715

Manufactured No

100

Each

26.0000

2

2

**

P< DAS 28 9-89

646 3715

Strut Doubler

DAS 27 89

Location

Loc Qty

Loc Code

cck105

26

142630

11

148568

15

2

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
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								Completed By																	
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Picklist Print

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3716
646 3716
Gauge Bracket

Manufactured No

100 Each

28.0000

1 1

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

28

140845

28

646.3717
646 3717
Doubler

Manufactured No

100 Each

15.0000

1 1

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

15

142634

15

646.3718
~~***646 3718***~~
Custom Washer

Manufactured No

100 Each

9.0000

2 2

**

B150389x1

DAS
6 SEP 29 2016
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

9

140788

3

148306

6

646.3719
646 3719
Doubler

Manufactured No

100 Each

16.0000

2 2

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

16

138311

5

148282

5

149309

6

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
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OTHER : _____																					

Picklist Print

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Page 7

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3810 Manufactured No 100 Each 14.0000 2 2

646 3810

Bracket

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

cck105

14

141555

9

148559

5

646.3811 Manufactured No 100 Each 14.0000 1 1

646 3811

Radius Block

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK106

14

140895

4

148258

10

646.3812 Manufactured No 100 Each 5.0000 2 2

646 3812

Gusset Bracket

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK106

5

140978

5

646.3813 Manufactured No 100 Each 9.0000 1 1

646 3813

Strut Bracket

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK106

9

141019

4

148269

5

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
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Page 8

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646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3910 Manufactured No 100 Each 19.0000 4 4

646 3910

Shim

**

1 B14826/PC **DAS 28**
9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK106	19	
140772	19	

646.3911 Manufactured No 100 Each 36.0000 1 1

646 3911

Shim

**

P < **DAS 28**
9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
cck104	16	
126229	16	
CCK106	20	
126059	20	

646.3912 Manufactured No 100 Each 26.0000 4 4

646 3912

Shim

**

P < **DAS 28**
9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK106	26	
140238	26	

646.3913 Manufactured No 100 Each 76.0000 1 1

646 3913

Shim

**

PC **DAS 28**
9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK106	76	
126060	76	

SEP 21 2016

DQA: _____ Date: _____



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Work Order update only ☐

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Picklist Print

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Page 9

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410
646 9410
Shim

Manufactured No

100 Each

85.0000

1 1

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck011

85

140671

85

647.0112
647 0112
Strut Bracket

Manufactured No

100 Each

28.0000

2

**

B148232P

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

28

142661

28

647.7703
647 7703
Strut Assembly

Manufactured No

100 Each

16.0000

2

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK114

16

144435

4

145013

12

650.9201
650 9201
Eyelet Bracket Assembly

Manufactured No

100 Each

8.0000

2

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck127

8

141582

8

SEP 21 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	
212000119				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER : _____																					

Picklist Print

Monday, August 29, 2016 2:58:39 PM

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No 100 Each 179.0000 10 10

AN3-11A

Bolt

**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
over003	100	
m135390	100	
ST349	79	
m134852	79	

AN3-12A Purchased No 100 Each 32.0000 2 2

AN3-12A

Bolt

**

PC DAS 28 9-89 m135603

DAS 27 9-89

Location	Loc Qty	Loc Code
ST349	32	
m133064	16	
m134257	16	

AN3-13A Purchased No 100 Each 53.0000 1 1

AN3-13A

Bolt

**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
GA	20	
m127070	20	
ST349	33	
m134365	33	

AN316C4R Purchased No 100 Each 23.0000 2 2

AN316C4R

Nut, Jam

**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST331	23	
m133234	21	
m133523	2	

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	

Picklist Print

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A

Purchased

No

100

Each

196.0000

4

4

AN3-3A

Bolt

**

P< DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST350

196

m134738

24

m135274

22

m135408

50

m135466

100

AN3-4A

Purchased

No

100

Each

189.0000

10

10

AN3-4A

Bolt

**

P< DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST350

189

m134955

189

AN3-5A

Purchased

No

100

Each

353.0000

2

2

AN3-5A

Bolt

**

P< DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

FP001

157

m133686

2

m134502

155

ST350

196

m135058

196

AN3-6A

Purchased

No

100

Each

207.0000

2

2

AN3-6A

Bolt

**

P< DAS 28 9-89

SEP 21 2016

DAS 27 9-89

Location

Loc Qty

Loc Code

ST349

207

M134955

207

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
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Root Cause		FAULT CATEGORY																			
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OTHER : ☐ _____																					

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Page 12

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No

100 Each 23.0000 2 2

AN44-5A

Eyebolt

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

23

m133990

2

m134134

1

m135127

20

2

AN4C7A Purchased No

100 Each 54.0000 2 2

AN4C7A

BOLT

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

50

m135470

50

ST345

4

m134861

4

2

AN665-34R Purchased No

100 Each 7.0000 2

AN665-34R

Clevis

**

2

m135544

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

7

M135087

7

CCR264SS3-02 Purchased No

100 Each 227.0000 36 36

CCR264SS3-02

Cherry Rivet

**

PC

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

227

M134134

2

M135127

225

36

SEP 2 1 2016

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Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER : ☐					

Picklist Print

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3 Purchased No

100 Each 134.0000 14

**

14

M 134 754 PC DAS 28 9-89

CR3213-5-3

Cherry Rivet

DAS 27 9-89

Location	Loc Qty	Loc Code
CCK003	100	
m135408	100	
ST319	34	
m134142	34	

MS20426AD5-7 Purchased No

100 Each 911.0000 2

**

2

PC DAS 28 9-89

MS20426AD5-7

RIVET

DAS 27 9-89

Location	Loc Qty	Loc Code
ST311	911	
M133922	911	

MS20470AD5-5.5 Purchased No

100 Each 894.0000 8

**

8

PC DAS 28 9-89

MS20470AD5-5 5

Rivet

DAS 27 9-89

Location	Loc Qty	Loc Code
ST309	894	
m134063	894	

MS20470AD5-6 Purchased No

100 Each 784.0000 8

**

8

PC DAS 28 9-89

MS20470AD5-6

RIVET

DAS 27 9-89

Location	Loc Qty	Loc Code
ST309	784	
124089	784	

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval _____																		
Description Work Order Deviation				Disposition																					
								Completed By _____																	
								Lead hand / Supervisor Approval Verification _____																	
								QC / QA Coordinator Approval _____																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____																			

Picklist Print

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7 Purchased No

100 Each 440.0000 3 3

MS20470AD5-7

Rivet

**

P<

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST309

440

123425

440

MS21042-08 MS21042L08 Purchased No

100 Each 33.0000 2

MS21042-08

USE MS21042L08

**

3
②

M 135 466 P<

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

MS21042-3 MS21042L3 Purchased No

100 Each 0.0000 2

MS21042-3

Nut

**

②

M 135 407 P<

DAS
28
9-89

DAS
27
9-89

MS21042L3 Purchased No

100 Each 1,509.000 61 61

MS21042L3

Nut

**

P<

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

14

m133790

14

GA

323

m134360

112

m135135

211

ST303

1172

m135135

572

m135407

600

61

SEP 21 2016

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DART
AEROSPACE

QA Closed: Date:

Work Order update only ☐

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev I

Picklist Print

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Page 15

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

100

Each

2,081.000

2

2

MS21042L 4

Nut

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FP001

51

m133363

51

GA

424

m133769

116

m135058

308

ST3003

25

m134955

25

ST303

1581

m133769

12

m134055

24

m135297

545

m135470

1000

2

MS21047-3

Purchased

No

100

Each

153.0000

18

18

MS21047-3

Nut Plate

PC **DAS 28**
9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

ST301

153

m134955

53

m135297

100

18

MS24693-C278

Purchased

No

100

Each

80.0000

5

5

MS24693-C278

Screw

PC

DAS 28
9-89

SEP 21 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

ST278

80

m135135

80

5

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Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S51 Purchased No
MS24694-S51
Screw

100 Each 264.0000 5 5
**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST284	264	
m135442	264	

5

MS24694-S54 Purchased No
MS24694-S54
SCREW

100 Each 90.0000 2 2
**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
over006	50	
m134851	50	
ST284	40	
m135274	40	

2

MS24694-S55 Purchased No
MS24694-S55
Screw

100 Each 204.0000 3 3
**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST283	204	
m134376	104	
m135408	100	

3

MS27039-08-13 Purchased No
MS27039-08-13
Screw

100 Each 142.0000 2 2
**

PC DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST278	142	
124326	142	

2

SEP 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

100

Each

18.0000

2

MS27039-1-10

SCREW

**

② M135603 PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

14

m129541

14

ST280

4

m134676

4

MS27039-1-12

Purchased

No

100

Each

53.0000

6

MS27039-1-12

Screw

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST280

53

m133988

3

m134294

50

MS27039-1-16

Purchased

No

100

Each

160.0000

24

MS27039-1-16

Screw

**

PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST280

160

m134502

160

MS27039-1-19

Purchased

No

100

Each

153.0000

22

MS27039-1-19

Screw

**

② M135603 PC DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

82

m134134

82

ST280

71

m135058

71

SEP 21 2016

Monday, August 29, 2016 2:58:40 PM

Shop Packet Print

Page 17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation				Disposition																					
								Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
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Picklist Print

Monday, August 29, 2016 2:58:40 PM

Page 18

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-20

Purchased

No

100

Each

105.0000

2

2

MS27039-1-20

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

105

124326

105

2

MS27039-1-21

Purchased

No

100

Each

265.0000

4

4

MS27039-1-21

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

265

m127904

265

4

NAS1149F0332P

Purchased

No

100

Each

1,365.000

144

NAS1149F0332P

Washer

DAS
28
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

282

m133709

282

ST262

1083

m135058

1083

NAS1149F0363P

Purchased

No

100

Each

246.0000

2

2

NAS1149F0363P

WASHER

PC

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

246

124555

246

2

SEP 2 1 2016

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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Picklist Print

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Monday, August 29, 2016 2:58:40 PM

Work Order ID: 150673

150673

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P Purchased

No

100

Each

847.0000

4

4

NAS1149F0432P

WASHER

**

DAS
28
9-89
PC

DAS
27
9-89

NAS1149FN832P Purchased

No

100

Each

1,732.000

4

NAS1149FN832P

Washer

**

4
4
M135603 PC
DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

847

M134955

847

Location

Loc Qty

Loc Code

GA

1553

M133316

16

M133769

89

M135058

1448

ST263

179

M134257

179

DAS
27
9-89

SEP 2 1 2016

DQA: _____ Date: _____

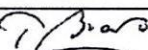
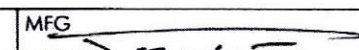
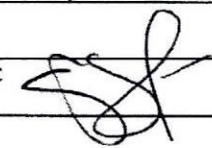


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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OTHER : ☐																					

 DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE	ENGINEERING CHANGE NOTICE NO. 05304				SHEET 1 OF 1		
	DWG NO. 646.4000		REV: C	PREPARED BY J. BECKER	DATE: 02/04/16		EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: AS350 CABLE CUTTERS KIT						
	APPROVED BY: ENGR. 		MFG 	QC 	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE		REASON: REVISED F/N 12.					ECR: N/A
SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. <u>150673</u> MJS 16-08-30							ACTION ITEM: 1. N/A
<u>SHEET 1, BOM IS:</u>							
12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N/TC	PART NUMBER		4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
		QTY					
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AERIAL INDUSTRIES. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF AERIAL INDUSTRIES. DATA PART APPROVAL: ANY REPRODUCTION OF THIS PART ON WHICH THE EXISTING PART IS BASED IS PROHIBITED.

NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE

VENDOR: MCMMASTER-CARR P/N 75954651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.

VENDOR: R.S. HUGHES P/N 021200-24216.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT, REMOVE

SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78

SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY

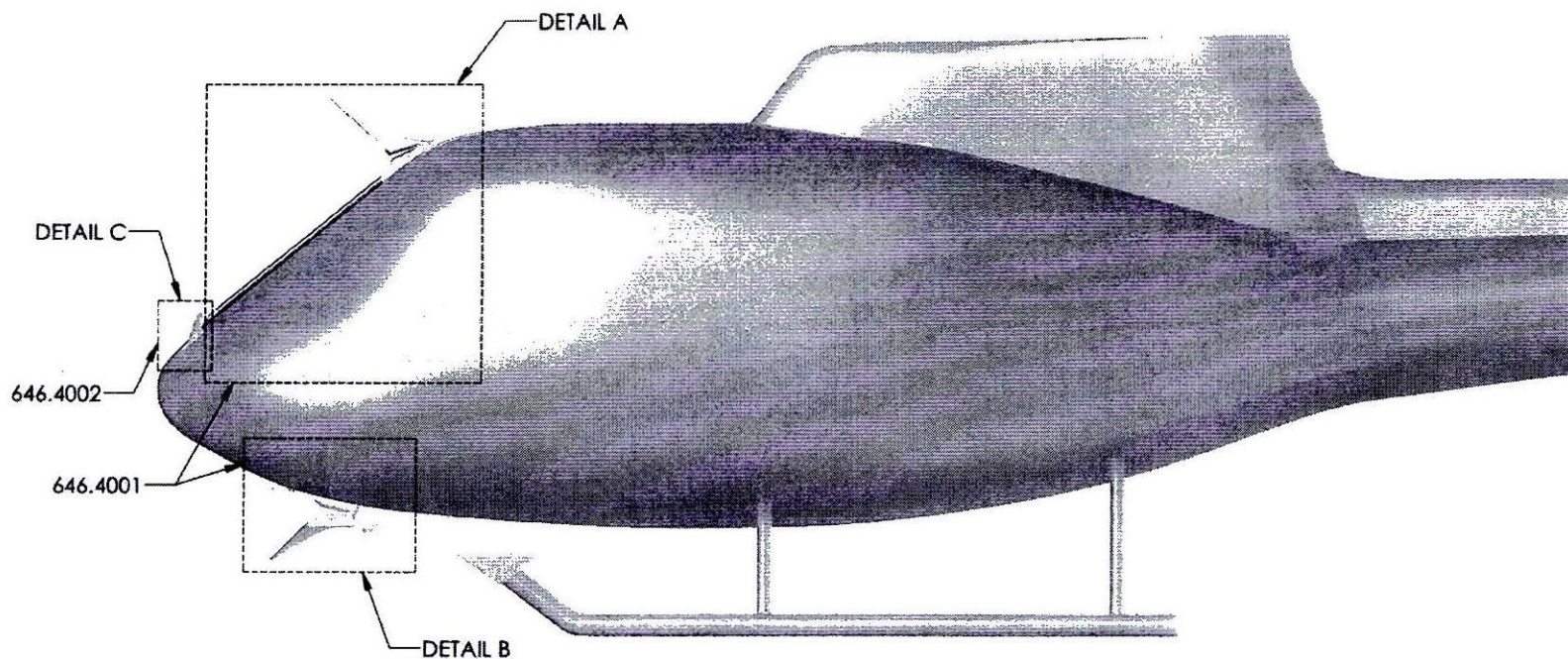
REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 &

F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

QTY	4004	4003	4002	4001	4000	3999	3998	3997	3996	3995	3994	3993	3992	3991	3990	3989	3988	3987	3986	3985	3984	3983	3982	3981	3980	3979	3978	3977	3976	3975	3974	3973	3972	3971	3970	3969	3968	3967	3966	3965	3964	3963	3962	3961	3960	3959	3958	3957	3956	3955	3954	3953	3952	3951	3950	3949	3948	3947	3946	3945	3944	3943	3942	3941	3940	3939	3938	3937	3936	3935	3934	3933	3932	3931	3930	3929	3928	3927	3926	3925	3924	3923	3922	3921	3920	3919	3918	3917	3916	3915	3914	3913	3912	3911	3910	3909	3908	3907	3906	3905	3904	3903	3902	3901	3900	3899	3898	3897	3896	3895	3894	3893	3892	3891	3890	3889	3888	3887	3886	3885	3884	3883	3882	3881	3880	3879	3878	3877	3876	3875	3874	3873	3872	3871	3870	3869	3868	3867	3866	3865	3864	3863	3862	3861	3860	3859	3858	3857	3856	3855	3854	3853	3852	3851	3850	3849	3848	3847	3846	3845	3844	3843	3842	3841	3840	3839	3838	3837	3836	3835	3834	3833	3832	3831	3830	3829	3828	3827	3826	3825	3824	3823	3822	3821	3820	3819	3818	3817	3816	3815	3814	3813	3812	3811	3810	3809	3808	3807	3806	3805	3804	3803	3802	3801	3800	3799	3798	3797	3796	3795	3794	3793	3792	3791	3790	3789	3788	3787	3786	3785	3784	3783	3782	3781	3780	3779	3778	3777	3776	3775	3774	3773	3772	3771	3770	3769	3768	3767	3766	3765	3764	3763	3762	3761	3760	3759	3758	3757	3756	3755	3754	3753	3752	3751	3750	3749	3748	3747	3746	3745	3744	3743	3742	3741	3740	3739	3738	3737	3736	3735	3734	3733	3732	3731	3730	3729	3728	3727	3726	3725	3724	3723	3722	3721	3720	3719	3718	3717	3716	3715	3714	3713	3712	3711	3710	3709	3708	3707	3706	3705	3704	3703	3702	3701	3700	3699	3698	3697	3696	3695	3694	3693	3692	3691	3690	3689	3688	3687	3686	3685	3684	3683	3682	3681	3680	3679	3678	3677	3676	3675	3674	3673	3672	3671	3670	3669	3668	3667	3666	3665	3664	3663	3662	3661	3660	3659	3658	3657	3656	3655	3654	3653	3652	3651	3650	3649	3648	3647	3646	3645	3644	3643	3642	3641	3640	3639	3638	3637	3636	3635	3634	3633	3632	3631	3630	3629	3628	3627	3626	3625	3624	3623	3622	3621	3620	3619	3618	3617	3616	3615	3614	3613	3612	3611	3610	3609	3608	3607	3606	3605	3604	3603	3602	3601	3600	3599	3598	3597	3596	3595	3594	3593	3592	3591	3590	3589	3588	3587	3586	3585	3584	3583	3582	3581	3580	3579	3578	3577	3576	3575	3574	3573	3572	3571	3570	3569	3568	3567	3566	3565	3564	3563	3562	3561	3560	3559	3558	3557	3556	3555	3554	3553	3552	3551	3550	3549	3548	3547	3546	3545	3544	3543	3542	3541	3540	3539	3538	3537	3536	3535	3534	3533	3532	3531	3530	3529	3528	3527	3526	3525	3524	3523	3522	3521	3520	3519	3518	3517	3516	3515	3514	3513	3512	3511	3510	3509	3508	3507	3506	3505	3504	3503	3502	3501	3500	3499	3498	3497	3496	3495	3494	3493	3492	3491	3490	3489	3488	3487	3486	3485	3484	3483	3482	3481	3480	3479	3478	3477	3476	3475	3474	3473	3472	3471	3470	3469	3468	3467	3466	3465	3464	3463	3462	3461	3460	3459	3458	3457	3456	3455	3454	3453	3452	3451	3450	3449	3448	3447	3446	3445	3444	3443	3442	3441	3440	3439	3438	3437	3436	3435	3434	3433	3432	3431	3430	3429	3428	3427	3426	3425	3424	3423	3422	3421	3420	3419	3418	3417	3416	3415	3414	3413	3412	3411	3410	3409	3408	3407	3406	3405	3404	3403	3402	3401	3400	3399	3398	3397	3396	3395	3394	3393	3392	3391	3390	3389	3388	3387	3386	3385	3384	3383	3382	3381	3380	3379	3378	3377	3376	3375	3374	3373	3372	3371	3370	3369	3368	3367	3366	3365	3364	3363	3362	3361	3360	3359	3358	3357	3356	3355	3354	3353	3352	3351	3350	3349	3348	3347	3346	3345	3344	3343	3342	3341	3340	3339	3338	3337	3336	3335	3334	3333	3332	3331	3330	3329	3328	3327	3326	3325	3324	3323	3322	3321	3320	3319	3318	3317	3316	3315	3314	3313	3312	3311	3310	3309	3308	3307	3306	3305	3304	3303	3302	3301	3300	3299	3298	3297	3296	3295	3294	3293	3292	3291	3290	3289	3288	3287	3286	3285	3284	3283	3282	3281	3280	3279	3278	3277	3276	3275	3274	3273	3272	3271	3270	3269	3268	3267	3266	3265	3264	3263	3262	3261	3260	3259	3258	3257	3256	3255	3254	3253	3252	3251	3250	3249	3248	3247	3246	3245	3244	3243	3242	3241	3240	3239	3238	3237	3236	3235	3234	3233	3232	3231	3230	3229	3228	3227	3226	3225	3224	3223	3222	3221	3220	3219	3218	3217	3216	3215	3214	3213	3212	3211	3210	3209	3208	3207	3206	3205	3204	3203	3202	3201	3200	3199	3198	3197	3196	3195	3194	3193	3192	3191	3190	3189	3188	3187	3186	3185	3184	3183	3182	3181	3180	3179	3178	3177	3176	3175	3174	3173	3172	3171	3170	3169	3168	3167	3166	3165	3164	3163	3162	3161	3160	3159	3158	3157	3156	3155	3154	3153	3152	3151	3150	3149	3148	3147	3146	3145	3144	3143	3142	3141	3140	3139	3138	3137	3136	3135	3134	3133	3132	3131	3130	3129	3128	3127	3126	3125	3124	3123	3122	3121	3120	3119	3118	3117	3116	3115	3114	3113	3112	3111	3110	3109	3108	3107	3106	3105	3104	3103	3102	3101	3100	3099	3098	3097	3096	3095	3094	3093	3092	3091	3090	3089	3088	3087	3086	3085	3084	3083	3082	3081	3080	3079	3078	3077	3076	3075	3074	3073	3072	3071	3070	3069	3068	3067	3066	3065	3064	3063	3062	3061	3060	3059	3058	3057	3056	3055	3054	3053	3052	3051	3050	3049	3048	3047	3046	3045	3044	3043	3042	3041	3040	3039	3038	3037	3036	3035	3034	3033	3032	3031	3030	3029	3028	3027	3026	3025	3024	3023	3022	3021	3020	3019	3018	3017	3016	3015	3014	3013	3012	3011	3010	3009	3008	3007	3006	3005	3004	3003	3002	3001	3000	2999	2998	2997	2996	2995	2994	2993	2992	2991	2990	2989	2988	2987	2986	2985	2984	2983	2982	2981	2980	2979	2978	2977	2976	2975	2974	2973	2972	2971	2970	2969	2968	2967	2966	2965	2964	2963	2962	2961	2960	2959	2958	2957	2956	2955	2954	2953	2952	2951	2950	2949	2948	2947	2946	2945	2944	2943	2942	2941	2940	2939	2938	2937	2936	2935	2934	2933	2932	2931	2930	2929	2928	2927	2926	2925	2924	2923	2922	2921	2920	2919	2918	2917	2916	2915	2914	2913	2912	2911	2910	2909	2908	2907	2906	2905	2904	2903	2902	2901	2900	2899	2898	2897	2896	2895	2894	2893	2892	2891	2890	2889	2888	2887	2886	2885	2884	2883	2882	2881	2880	2879	2878	2877	2876	2875	2874	2873	2872	2871	2870	2869	2868	2867	2866	2865	2864	2863	2862	2861	2860	2859	2858	2857	2856	2855	2854	2853	2852	2851	2850	2849	2848	2847	2846	2845	2844	2843	2842	2841	2840	2839	2838	2837	2836	2835	2834	2833	2832	2831	2830	2829	2828	2827	2826	2825	2824	2823	2822	2821	2820	2819	2818	2817	2816	2815	2814	2813	2812	2811	2810	2809	2808	2807	2806	2805	2804	2803	2802	2801	2800	2799	2798	2797	2796	2795	2794	2793	2792	2791	2790	2789	2788	2787	2786	2785	2784	2783	2782	2781	2780	2779	2778	2777	2776	2775	2774	2773	2772	2771	2770	2769	2768	2767	2766	2765	2764	2763	2762	2761	2760	2759	2758	2757	2756	2755	2754	2753	2752	2751	2750	2749	2748	2747	2746	2745	2744	2743	2742	2741	2740	2739	2738	2737	2736	2735	2734	2733	2732	2731	2730	2729	2728	2727	2726	2725	2724	2723	2722	2721	2720	2719	2718	2717	2716	2715	2714	2713	2712	2711	2710	2709	2708	2707	2706	2705	2704	2703	2702	2701	2700	2699	2698	2697	2696	2695	2694	2693	2692	2691	2690	2689	2688	2687	2686	2685	2684	2683	2682	2681	2680	2679	2678	2677	2676	2675	2674	2673	2672	2671	2670	2669	2668	2667	2666	2665	2664	2663	2662	2661	2660	2659	2658	2657	2656	2655	2654	2653	2652	2651	2650	2649	2648	2647	2646	2645	2644	2643	2642	2641	2640	2639	2638	2637	2636	2635	2634	2633	2632	2631	2630</
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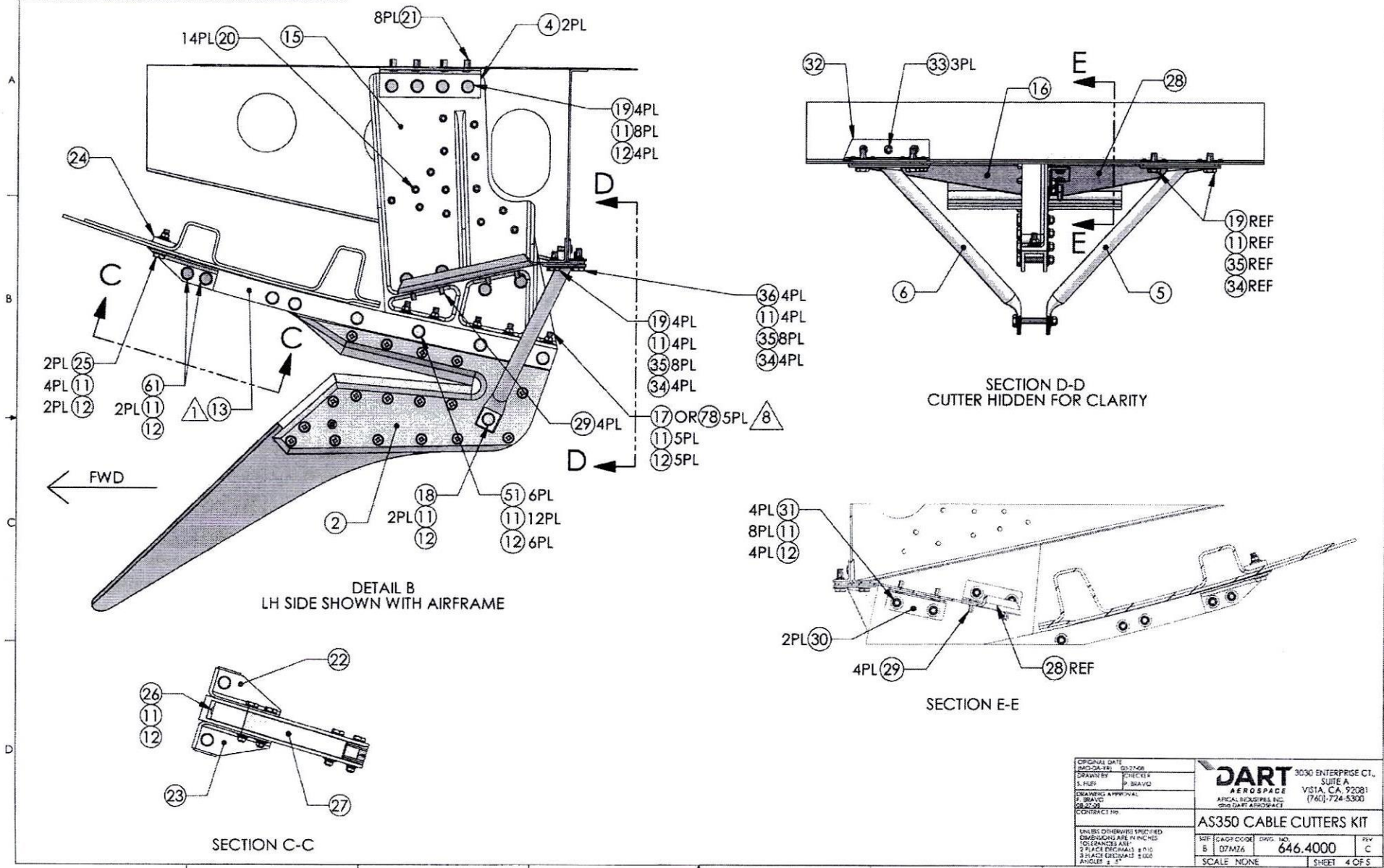
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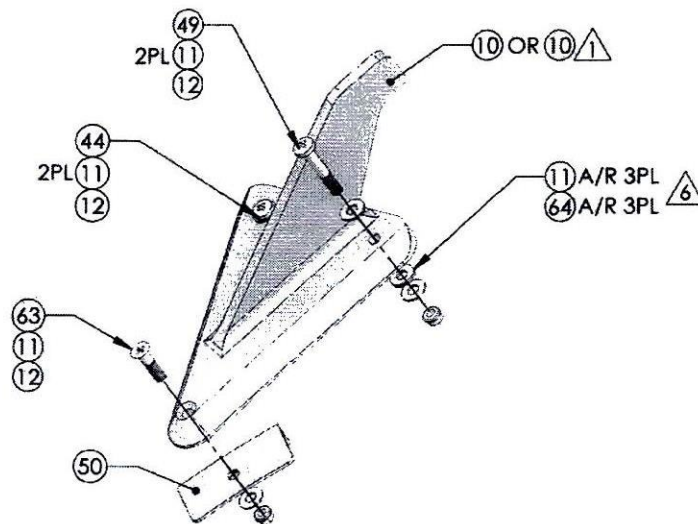


ORIGINAL DATE 08-27-08	DART AEROSPACE 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300 APICAL INDUSTRIES INC. DBA DART AEROSPACE		
DRAWN BY CHESTER			
E. HUFF			
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.010 2 PLACE DECIMALS ±.005 ANGLES ±.5°			
AS350 CABLE CUTTERS KIT			
SHEET B	CAGE CODE 07M26	QWG. NO. 646.4000	REV C
SCALE NONE			SHEET 2 OF 3

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AFICAL INDUSTRIES
 DDA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
 WRITTEN PERMISSION OF AFICAL INDUSTRIES DDA DART AEROSPACE IS PROHIBITED.



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DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE		3030 ENTERPRISE CT.	
REV. DATE		SUITE A	
DRAWN BY		VISTA, CA. 92081	
1. HLT		(760) 724-5300	
DRAWING APPROVAL		APICAL INDUSTRIES INC.	
P. BRAY		DBA DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED		SEE CASE CHECK	
DIMENSIONS ARE IN INCHES		DWO. NO.	
TOLERANCES ARE:		8 07M26	
2 PLACE DECIMALS .XX		646.4000	
3 PLACE DECIMALS .XXX		SCALE NONE	
ANGLES 3°		SHEET 5 OF 5	

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NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

REFERENCE ONLY

UNINCORPORATED ECN(S)

05304

5	5	5	78	601.3875	SCREW	MS27039-1-17				
1	1	1	77	646.9410	SHIM					
	4	4	76	601.2764	WASHER	NAS1149F0432P				
	2	2	75	601.2973	LOCKNUT	MS27042-08				
	2	2	74	601.2988	SCREW	MS27039-0813				
	2	2	73	601.2943	LOCKNUT	MS27042-3				
	2	2	72	601.3128	NUT	AN311C4R				
	2	2	71	601.3209	LOCKNUT	MS27042-4				
	4	4	70	601.2638	WASHER	NAS1149F0432P				
	2	2	69	601.2669	BOLT	AN4C7A				
	2	2	68	601.3119	CLEVIS	AN665-34R				
	2	2	67	601.3121	EYE BOLT	AN44-5A				
	2	2	66	650.9201	EYE BRACKET ASSY					
REF	REF	REF	65	647.5701	GPS MOUNT KIT					
		2	64	601.3151	WASHER	NAS1149F0432P				
		2	63	601.2911	SCREW	MS246P4553				
	24	24	62	601.2637	SCREW	MS27039-1-16				
2	2	2	61	601.2763	BOLT	AN3-12A				
	1	1	60	646.3913	SHIM					
	4	4	59	646.3912	SHIM					
	1	1	58	646.3911	SHIM					
	4	4	57	646.3910	SHIM					
	5	5	56	600.1013	PRIMER					
	8 FT	8 FT	55	600.0129	VHB TAPE					
	1	1	54	600.1012	SEALANT	PS-1405 CLASS B				
	1	1	53	600.0991	MAGNABOND 6378 PART B					
	1	1	52	600.0990	MAGNABOND 6378 PART A					
6	10	10	51	601.2826	BOLT	AN3-11A				
		2	50	646.3814	WIPER BRACKET					
		2	49	601.2910	SCREW	MS27039-1-18				
2		2	48	601.1365	SCREW	MS27039-1-10				
2		2	47	646.3719	DOUBLER					
	2	2	46	646.3718	CUSTOM WASHER					
	1	1	45	646.3717	DOUBLER					
	22	2	44	601.1948	SCREW	MS27039-1-19				
	2	2	43	601.1952	SCREW	MS27039-1-20				
	4	4	42	601.1956	SCREW	MS27039-1-21				
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 2119, 6231, 02719 & 72545	02/06/2016	P. BRAYO
B	INCORPORATED ECN 02046, 02079 & 64731	11/04/2016	P. BRAYO
C	INCORPORATED ECN 02075	08/09/2015	P. BRAYO

		2		2	41	601.2829	SCREW	MS246P4554	
		2		2	40	601.2831	RIVET	MS2042GAD3-7	
		1		1	39	646.3716	GAUGE BRACKET		
		6		6	38	601.1953	SCREW	MS27039-1-12	
		2		2	37	646.3715	STRUT DOUBLER		
	2		2	2	36	601.2824	BOLT	AN3-5A	
12	36			36	35	601.2277	RIVET	DCR2445-9-02	
6	18			18	34	600.0795	NUTPLATE	MS21047-3	
3	3			3	33	601.2565	RIVET	MS2047GAD3-7	
1	1			1	32	646.3813	STRUT BRACKET		
4	4			4	31	601.2822	BOLT	AN3-3A	
2	2			2	30	646.3812	GUSSET BRACKET		
8	8			8	29	601.2564	RIVET	MS2047GAD3-6	
1	1			1	28	646.3714	GUSSET		
	1	1		1	27	646.3610	FILLER		
	3	3		3	26	601.2830	SCREW	MS246P4555	
	2	2		2	25	601.2825	BOLT	AN3-6A	
	1	1		1	24	646.3811	RADIUS BLOCK		
	1	1		1	23	646.3712	CLIP		
	1	1		1	22	646.3711	CLIP		
8	8			8	21	601.2832	RIVET	MS2047GAD3-5.5	
14	14			14	20	601.2020	RIVET	CR321-5-0-3	
4	6	4	6	10	19	601.2823	BOLT	AN3-4A	
1	1	1	1	1	18	601.2827	BOLT	AN3-13A	
	5		5	5	17	601.2912	SCREW	MS246P4551	
1	1			1	16	646.3713	GUSSET		
1	1			1	15	646.3210	SUPPORT		
	1			1	14	646.3710	DOUBLER		
	1	1		1	13	646.3110	CHANNEL		
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042-3
16	32	18	120	16	144	11	601.1607	WASHER	NAS1149F0202P
						10	646.3410	LH WIPER DEFLECTOR	
						9	646.3411	RH WIPER DEFLECTOR	
		2		2	8	8	647.7703	STRUT ASSY	
		2		2	7	7	647.0112	STRUT BRACKET	
		1		1	6	6	646.3511	STRUT	
	1	1		1	5	5	646.3510	STRUT	
2	2			2	4	4	646.3810	BRACKET	
				1	3	3	646.2910	DEFLECTOR	
	1	1		1	2	2	646.3001	LOWER CUTTER ASSY	
		1		1	1	1	646.3301	UPPER CUTTER ASSY	
X							646.4006	LOWER CUTTER FIXED PROVISIONS	
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS	
		X					646.4004	FIXED PROVISIONS KIT	
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS	
				X			646.4002	AS350 WIPER DEFLECTOR KIT	
					X		646.4001	AS350 CABLE CUTTERS KIT	
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL SPEC.

QTY	PARTS LIST			
NEXT ASSY (S)	ORIGINAL DATE MAY 1988	REVISE OCTOBER		
	S. #111	P. MAYO		
	DATE OF APPROVAL P. MAYO	DATE OF APPROVAL P. MAYO		
	CONTRACT NO.			
	</			

ORDER # DATE 1000000000 09/27/08 DRAWN BY J. RUFF CHECKED BY P. BRAYO ESTIMATING APPROVAL P. BRAYO PURCHASING APPROVAL J. RUFF		DART AEROSPACE 4800 AIRPORT BLVD. ALBUQUERQUE, NM 87106 (505) 242-1000		3030 ENTERPRISE CT., SUITE 100 VISTA, CA 92081 (760) 724-5300	
AS350 CAGE CODE CUTTERS KIT					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. HORIZONTALS .010" 2. VERTICALS .005" 3. PLACES DECIMALS 1/16"		QTY 1	PART # 07M16	CAGE CODE 646.400	REV C
SCALE NONE		SHEET 1 OF 5			

DART 3030 ENTERPRISE CT., SUITE A
APICAL INDUSTRIES, INC. YOTA, CA. 92081
(760) 724-5300
DBA DART AEROSPACE

AS350 CABLE CUTTERS KIT
REV C
SCALE NONE
SHEET 1 OF 5



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR:
N/A

ACTION ITEM:
1. N/A

REFERENCE ONLY

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/NTC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION	
		QTY					
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	